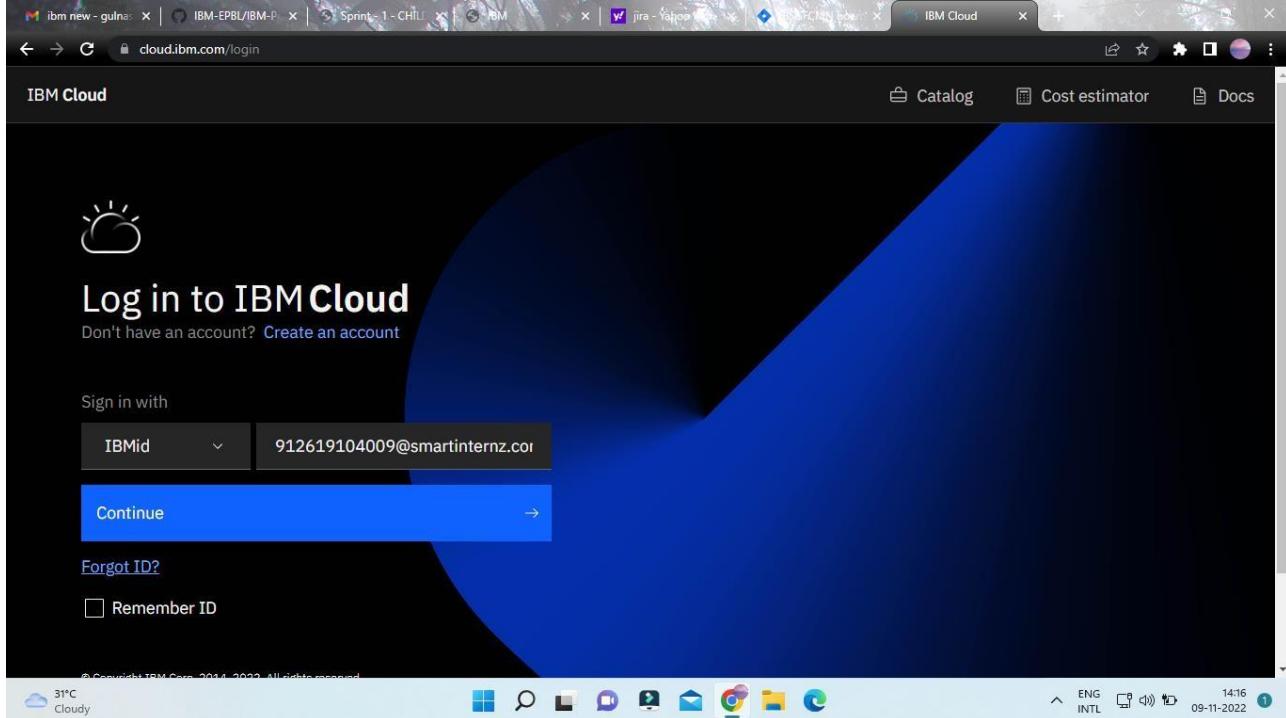


Create IBM Watson IoT Platform And Device

Team ID	PNT2022TMID48154
Project Name	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

As a user I need to enroll the cloud registration



As a user, I will creat IBM cloud account.

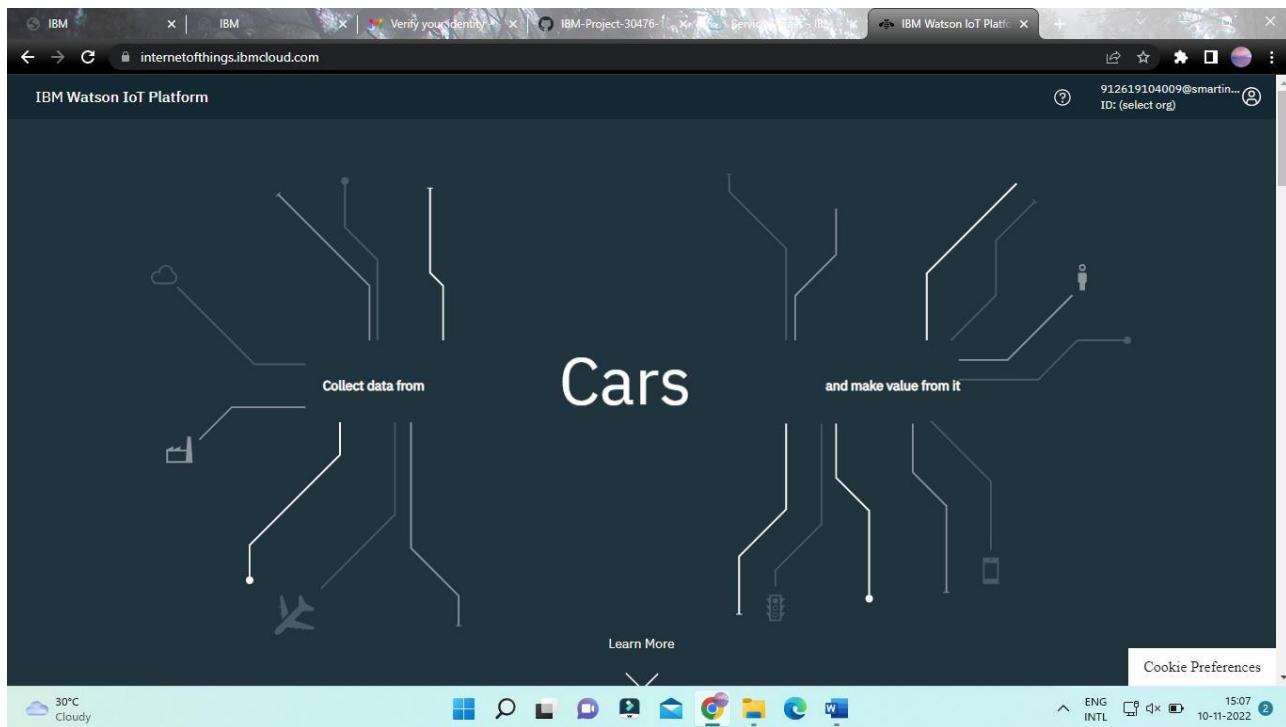
The screenshot shows the IBM Cloud dashboard. On the left, there's a sidebar with various icons for services like Build, Data, Functions, Watson, and VMs. The main area has a heading 'Dashboard'. Below it, there's a 'For you' section with four cards:

- Build**: Explore IBM Cloud with this selection of easy starter tutorials and services.
- Set up your IBM Cloud account**: Learn how to set up your IBM Cloud account, manage your account settings, organize resources, and control access to those resources.
- IBM Watson Internet of Things Platform**: Communicate with connected devices, monitor and analyze data in real time, connect your own IoT apps and add Watson AI to the solution.
- Unlock the entire catalog**: Upgrade your account to access Kubernetes and everything IBM Cloud has to offer.

At the bottom of the dashboard, there are links for 'User access', 'Manage users', 'News' (which is highlighted in blue), 'View all', 'Planned maintenance', and 'View all'.

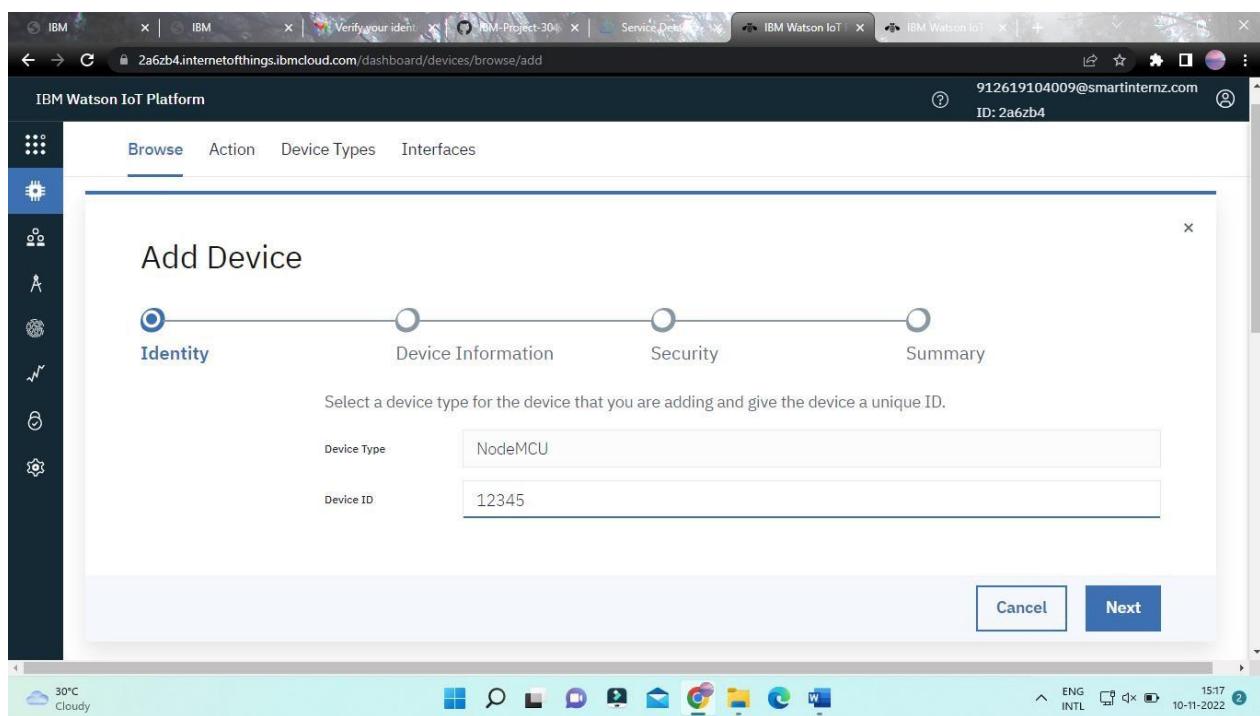
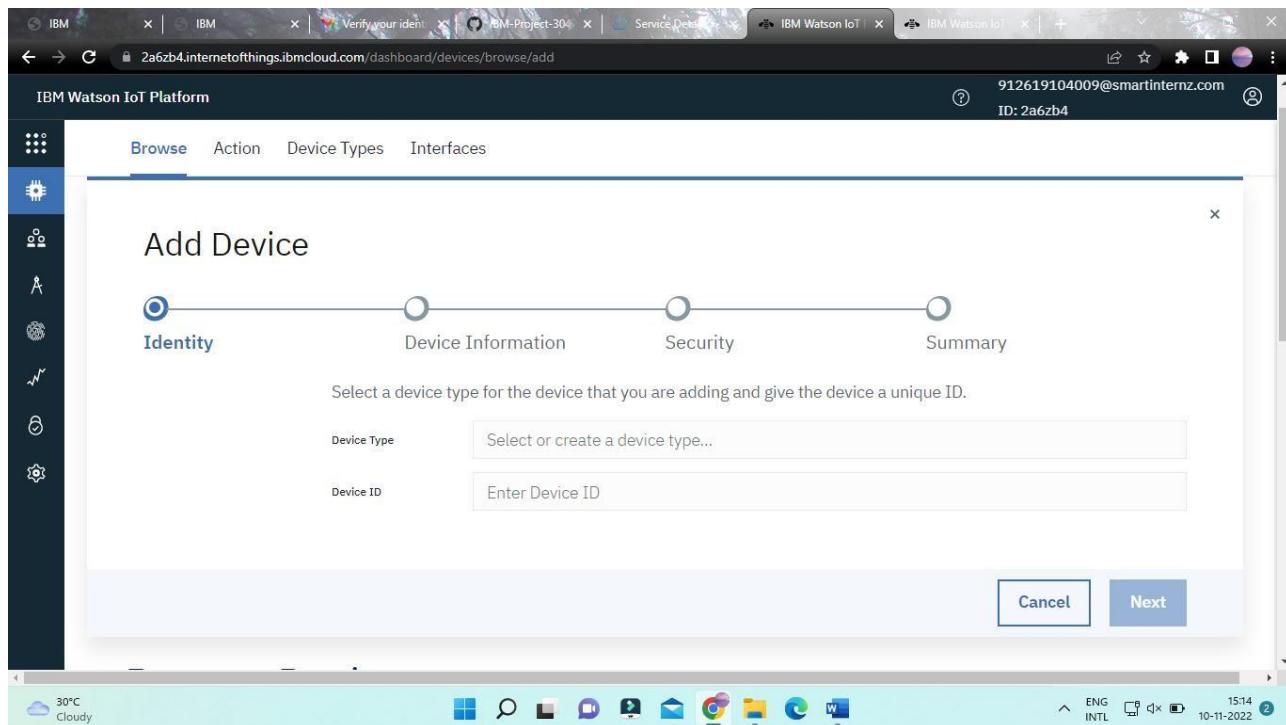
After creating cloud account launch IBMWatson IOT platform by accessing cloud account .

The screenshot shows the 'Service Details - IBM Watson IoT Plat...' page. The top navigation bar includes 'IBM Cloud', 'Search resources and products...', 'Catalog', 'Manage', and 'Gulnas Fath...'. The main content area is titled 'Internet of Things Platform-ny' and shows the status as 'Active'. There are tabs for 'Details' and 'Actions...'. A large graphic of a central node connected to multiple peripheral nodes is displayed. Below the graphic, a call-to-action says 'Let's get started with IBM Watson IoT Platform' with 'Launch' and 'Docs' buttons. A section for 'Ready for the next level?' shows the 'IBM Watson IoT Platform Journey' with 'Lite' (checked) and 'Non-Production' stages. The bottom of the screen shows a taskbar with various application icons and system status indicators.



Create the node in IBM Watson platform

The screenshot shows the "Browse Devices" page in the IBM Watson IoT Platform. On the left, there is a sidebar with various icons. The main area has a title "Browse Devices" and two buttons: "All Devices" (highlighted in blue) and "Diagnose". Below this, there is a summary text: "This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API." At the bottom, there is a search bar "Search by Device ID" and a "Device Simulator" toggle switch. A table header is visible with columns: "Device ID", "Status", "Device Type", "Class ID", and "Date Added". At the very bottom, there is a status bar with weather (30°C Cloudy), language (ENG INTL), and date/time (15:10 10-11-2022).



Screenshot of the IBM Watson IoT Platform "Add Device" wizard, Step 1: Identity.

The Identity step is completed, indicated by a checkmark icon above the "Identity" tab. The "Device Information" tab is currently selected. The "Security" and "Summary" tabs are also present in the navigation bar.

Identity

You can modify the default device information and enter more information about the device for identification purposes.

Serial Number	Enter Serial Number	Manufacturer	Enter Manufacturer
Model	Enter Model	Device Class	Enter Device Class
Description	Enter Description	Firmware Version	Enter Firmware Version
Hardware Version	Enter Hardware Version	Descriptive Location	Enter Descriptive Location

Device Information

Verify that the following information is correct then select Finish

Device Type: NodeMCU
Device ID: 12345

View Metadata

Security Token: 12345678

Summary

Back | Finish

IBM Watson IoT Platform dashboard showing the device configuration progress.

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes tabs for 'Verify your identity', 'IBM Project-304', 'Service Details', 'IBM Watson IoT', and 'IBM Watson IoT'. The URL in the address bar is 2a6zb4.internetofthings.ibmcloud.com/dashboard/devices/drilldown/NodeMCU:12345?returnTo=/devices/browse. The user is identified as 912619104009@smartinternz.com with ID: 2a6zb4.

The main content area is titled 'Device Drilldown - 12345'. On the left, a sidebar menu lists 'Device Credentials', 'Connection Information', 'Recent Events', 'State', 'Device Information', and 'Metadata'. The 'Device Credentials' section displays the following details:

Organization ID	2a6zb4
Device Type	NodeMCU
Device ID	12345
Authentication Method	use-token-auth
Authentication Token	12345678

A warning message states: 'Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.' Below this, a link says 'Find out how to add these credentials to your device'.

The bottom status bar shows the weather as 30°C Cloudy, system icons, and the date/time as 10-11-2022 15:22.

USN 5: After Creating node get device Type and id

The screenshot shows the IBM Watson IoT Platform interface. The top navigation bar includes tabs for 'Verify your identity', 'IBM Project-304', 'Service Details', 'IBM Watson IoT', and 'IBM Watson IoT'. The URL in the address bar is 2a6zb4.internetofthings.ibmcloud.com/dashboard/devices/browse. The user is identified as 912619104009@smartinternz.com with ID: 2a6zb4.

The main content area is titled 'Browse'. The sidebar menu includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A blue button labeled 'Add Device' with a '+' icon is visible. A search bar 'Search by Device ID' is present, along with a 'Device Simulator' toggle switch.

The 'Browse' table lists devices. One row is selected for device ID 12345, which is shown in more detail in a modal overlay:

Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	NodeMCU	Device	Nov 10, 2022 3:20 PM

The modal overlay for device ID 12345 contains tabs for 'Identity', 'Device Information', 'Recent Events', 'State', and 'Logs'. The 'Identity' tab is active, displaying the following information:

Device ID	12345
Device Type	NodeMCU
Date Added	Nov 10, 2022 3:20 PM
Added By	912619104009@smartinternz.com
Connection Status	Disconnected

The bottom status bar shows the weather as 30°C Cloudy, system icons, and the date/time as 10-11-2022 15:24.

USN 6: Simulate the node created

The screenshot shows a web-based device management interface. At the top, there are tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. On the right, there is a blue button labeled 'Add Device' with a '+' icon. Below the tabs, a table lists devices with columns: 'Device ID', 'Status', 'Device Type', 'Class ID', and 'Date Added'. Two rows are visible: one for '123456' (Disconnected, NodeRed, Device, Oct 29, 2022 3:29 PM) and another for 'NodeRed_1' (Connected, NodeRed, Device, Oct 29, 2022 3:32 PM). A dropdown arrow is next to 'NodeRed_1'. To the right of the table are icons for 'Edit' and 'More'. Below the table, a navigation bar has tabs for 'Identity', 'Device Information', 'Recent Events' (which is selected), 'State', and 'Logs'. A close 'X' button is on the far right of the bar. A message below the tabs says, 'The recent events listed show the live stream of data that is coming and going from this device.' A table titled 'Recent Events' follows, with columns: 'Event', 'Value', 'Format', and 'Last Received'. Five entries for 'event_1' are shown, each with a JSON value like {"longitude":63}, a 'json' format, and a timestamp 'a few seconds ago'. The last entry is partially cut off. A summary at the bottom right of the table area says '1 Simulation running'.

Event	Value	Format	Last Received
event_1	{"longitude":63}	json	a few seconds ago
event_1	{"longitude":50}	json	a few seconds ago
event_1	{"longitude":63}	json	a few seconds ago
event_1	{"longitude":56}		
event_1	{"longitude":51}		

1 Simulation running

